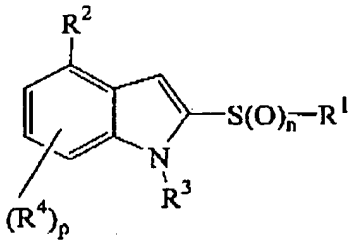
Claim Listing

1. (Currently Amended) A compound of the formula:



or a pharmaceutically acceptable salt thereof,

wherein

n is ~~0, 1 or~~ 2;

p is 1 or 2;

R^1 is aryl;

R^2 is a heterocyclyl;

R^3 is hydrogen[[,]] or alkyl~~, or -C(=O)-R^5, where R^5 is alkyl, alkoxy, aryl, or aryloxy~~; and

each R^4 is independently hydrogen, hydroxy, cyano, alkyl, alkoxy, thioalkyl, alkylthio, halo, haloalkyl, hydroxyalkyl, nitro, alkoxycarbonyl, alkylcarbonyl, alkylsulfonyl, arylsulfonyl, haloalkylsulfonyl, amino, alkylamino, dialkylamino, alkyl(aryl)amino, alkylaminocarbonyl, alkylcarbonylamino, alkylcarbonyl(alkylamino), alkylaminosulfonyl, alkylsulfonylamino or methylenedioxy.

2. (Original) The compound according to Claim 1, wherein p is 1 and R^4 is located at the 6-position of the indole ring system.

3. (Original) The compound according to Claim 1, wherein R^2 is optionally substituted piperazin-1-yl or optionally substituted piperidin-4-yl.

4. (Original) The compound according to Claim 3, wherein R^2 is piperazin-1-yl, 4-methylpiperazin-1-yl, 3,5-dimethylpiperazin-1-yl, N-methyl piperidin-4-yl or piperidin-4-yl.

5. (Original) The compound according to Claim 4, wherein R^2 is 4-methylpiperazin-1-yl.

6. (Previously presented) The compound according to Claim 3, wherein R^1 is optionally substituted phenyl.

7. (Currently Amended) The compound according to Claim 6, wherein R^1 is ~~thien-2-yl or~~ phenyl which is optionally substituted with alkyl, halo, or haloalkyl.

8. (Previously presented) The compound according to Claim 7, wherein R^1 is phenyl, 2,3-dichlorophenyl, 2-fluorophenyl, 2-methylphenyl, 2-trifluoromethylphenyl, or 3-bromophenyl.

9. (Canceled)

10. (Currently Amended) The compound according to Claim 9, wherein R^3 is hydrogen[[,]] <u>or</u> methyl ~~or C(=O) R^5, where R^5 is alkoxy~~.

11. (Currently Amended) The compound according to Claim 1, wherein R^1 is phenyl which is optionally mono- or di-substituted independently with alkyl, halo, <u>or</u> haloalkyl.

12. (Previously presented) The compound according to Claim 11, wherein R^1 is phenyl, 2,3-dichlorophenyl, 2-fluorophenyl, 2-methylphenyl, 2-trifluoromethylphenyl, or 3-bromophenyl.

13. (Canceled)

14. (Currently Amended) The compound according to Claim ~~13~~ 11, wherein R^2 is optionally substituted piperazin-1-yl or optionally substituted piperidin-4-yl.

15. (Original) The compound according to Claim 14, wherein R^2 is piperazin-1-yl, 4-methylpiperazin-1-yl, 3,5-dimethylpiperazin-1-yl, N-methyl piperidin-4-yl or piperidin-4-yl.

16. (Currently Amended) The compound according to Claim 15, wherein R^3 is hydrogen[[,]] or methyl ~~or -C(=O)-R^5, where R^5 is alkoxy~~.

17. (Canceled)

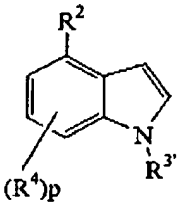
18. (Currently Amended) The compound according to Claim ~~17~~ 15, wherein R^1 is ~~thienyl or~~ phenyl which is optionally mono- or di-substituted independently alkyl, halo, haloalkyl.

19. (Original) The compound according to Claim 18, wherein R^2 is optionally substituted piperazin-1-yl or optionally substituted piperidin-4-yl.

20. (Original) The compound according to Claim 19, wherein R^3 is hydrogen[[,]] or methyl ~~or -C(=O)-R^5, where R^5 is alkoxy~~.

21. (Currently Amended) A method for producing a compound of claim 1,

said method comprising contacting a substituted indole of the formula:

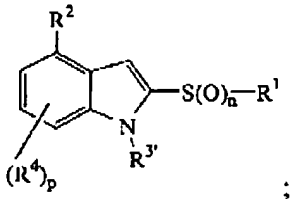


wherein $R^{3'}$ is alkyl ~~or -C(=O)-R^5~~ and p, R^2 and R^4 are as recited in claim 1,

(i) with a base to produce a deprotonated indole; and

(ii) contacting the deprotonated indole with a sulfonylating agent of the formula:

$Y\text{-}SO_2\text{–}R^1$, where Y is halide and R^1 is as recited in claim 1, or a disulfide agent of the formula: $R^1\text{–}S\ S\text{–}R^1$ to produce a 2-substituted indole of the formula:



;

(iii) ~~optionally~~ oxidizing the sulfur with an oxidizing agent; and

(iv) optionally removing R^3 to produce the compound of claim 1.

22. (Withdrawn) The method of Claim 21, wherein Y is fluorine.

23. (Original) A composition comprising:

(a) a therapeutically effective amount of a compound of Claim 1; and

(b) a pharmaceutically acceptable carrier.

24. (Withdrawn) A method for treating a CNS disease state in a subject, said method comprising administering to said subject a therapeutically effective amount of a compound of Claim 1.

25. (Withdrawn) The method of Claim 24, wherein the disease state comprises psychoses, schizophrenia, manic depressions, neurological disorders, memory disorders, attention deficit disorder, Parkinson's disease, amyotrophic lateral sclerosis, Alzheimer's disease and Huntington's disease.

26. (Withdrawn) A method for treating a disorder of the gastrointestinal tract in a subject, said method comprising administering to said subject a therapeutically effective amount of a compound of Claim 1.

27. (Withdrawn) A method for treating obesity in a subject, said method comprising administering to said subject a therapeutically effective amount of a compound of Claim 1.